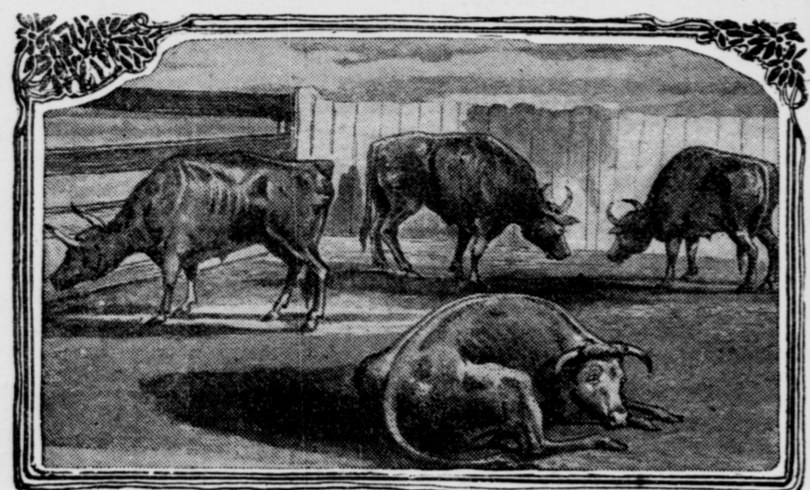


To stamp out Texas cattle fever. This is the hope of the Department of Agriculture. The Department has been working on the problem for some time, and it has almost been proved to the satisfaction of officials that the tick which causes the fever can be eradicated from a pasture simply by keeping cattle out of that pasture. The tick is not a herbivorous insect, and it will die out if the pasture is kept free of cattle. It is believed that if one pasture on a farm is always kept free of cattle over what might be termed the life period of the tick, it will furnish perfectly safe pasturage for uninfected animals all over the country who are doing practically this very thing when they dispose of their barnyard manure for \$1 a load. Others are wasting the most valuable constituents of the manure they save. The manure produced on the farm is its most valuable asset.

Where the wise farmer who would sell to his neighbor a load of his finest corn or a load of some green crop for a dollar bill. Yet there are thousands of agriculturists all over the country who are doing practically this very thing when they dispose of their barnyard manure for \$1 a load. Others are wasting the most valuable constituents of the manure they save. The manure produced on the farm is its most valuable asset.

There are in the United States, in round numbers, 17,000,000 horses, 61,000,000 cattle, 47,000,000 hogs and 45,000,000 sheep. Experiments have shown that if these animals were kept in stalls or pens throughout the year and the manure, both liquid and solid, carefully saved, the approximate value of the manure produced by each horse



of cattle, which is now prohibited. The saving in money and the convenience to shippers of this arrangement can easily be understood.

To Introduce Cattle from India.

While this quarantine and extirpation work is going on, a similar experiment on different lines, directed to the same end will soon be under way. There have been imported to some of the Texas ranges specimens of the Indian sacred cattle, and it has been found that they were immune to the Texas fever. Apparently there is an oil in the skin that is repugnant to the tick. At any rate they will not harbor the parasite. The half-bloods and even animals containing but one-sixteenth part Indian blood have been found immune, and they make just as good beef cattle as can be found.

There are very stringent laws against the importation of foreign stock into this country without thorough examination and quarantine; therefore it is risky to import stock from so far away as India without special provisions for its examination. Mr. A. S. Borden of Pierce, Tex., has arranged, however, with the Agricultural Department to make a large importation of the immune Indian cattle, and has already left for British India to pick them out. The Department of Agriculture will send a special veterinary after him, and the first shipment of about 100 head will be

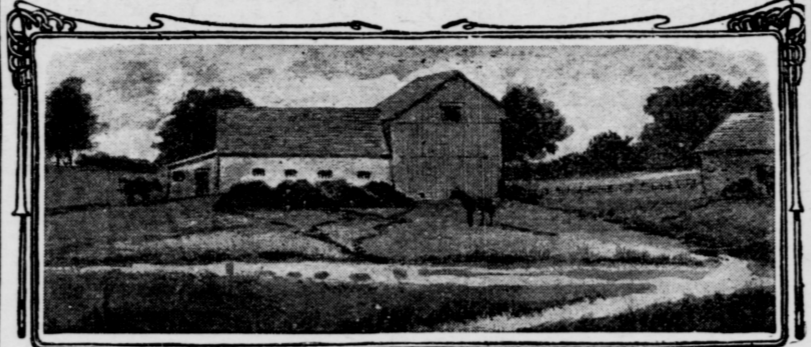


examined before they are shipped, and then quarantined on one of the small islands of the Gulf coast till it is determined that there is no danger of their bringing into this country some strange bovine affliction even worse perhaps than Texas fever.

After the animals have been thoroughly proven, they will be introduced among the Texas herds, and it is hoped

into practice the new idea that the manure should be as carefully preserved from unnecessary loss, as should any other farm product, after he has for twenty years stored the farmyard manure under the eaves upon the slope which forms one border of the running brook.

Experiments made by various Government experiment stations show that the construction of sheds or covered yards for the protection of manure is well worth while. The manure from the horse and cattle stables and the sheep and calf pens should be spread



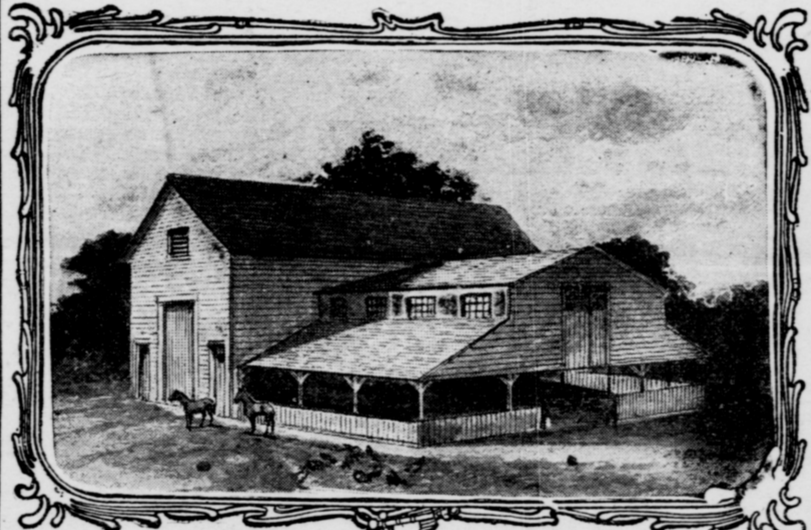
out evenly over these yards, covered with coarse litter, and the whole kept firmly packed by allowing animals to run over it, thus preventing injurious fermentation.

To Save All the Fertility.

A more elaborate and expensive style of covered yard, a plan for which is furnished by the Department of Agriculture, provides not only for the required protection of both animals and manure, but also affords an excellent grain chamber where feed can be stored for convenient use. Under the side roofs is also afforded a chance for the storing of small tools and a great variety of articles that are continually in the way when lying about the farm buildings. It also provides splendid protection to animals when housed at night during the summer, this roof protecting them from heavy showers in the night and affording good chance for exercise in the winter, as all the sides, except that toward the south, can be protected against cold winds through temporary boarding.

Many stables are so situated that by adding a cheap lean-to, a manure "pit" is easily produced. The outside boarding of the lean-to should be, for a part of the way at least, put horizontally and hung in the form of flat doors, so that the manure can be easily loaded on a wagon standing on the outside of the building.

A great number of farmers who have adopted manure sheds and covered



yards have obtained unsatisfactory results, but the Department of Agriculture believes that this is probably due to the fact that these structures have generally been loosely put together, allowing a free circulation of air, which has dried out the manure. On this account barn cellars, so common in New England, possess decided advantages as receptacles for manure. The common practice of allowing swine to "work over" the manure in these cellars is a wise one, since it mixes the manure and keeps it well packed and moist. In fact, if these cellars are provided with impervious bottoms to hold the liquid manure, this system of storage is probably the most perfect practicable.

Manure the Best Fertilizer.

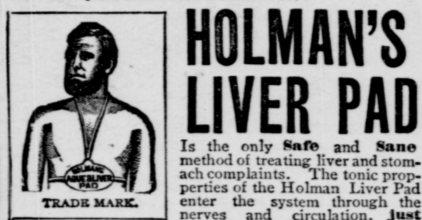
Barnyard manure is the most effective means at the disposal of the average farmer to permanently improve his soil. No other fertilizer possesses to so great a degree the power of restoring worn out soils to productivity and giving them lasting fertility. It provides actual fertilizing constituents; it improves the physical properties of the soil, increasing the amount of humus, which is generally deficient in worn soils, bettering its texture and increasing its water-absorbing and water-holding power. Experiments have shown that the influence of manure may be perceptible twenty years after application. It directly represents fertility drawn from the soil and must be returned to it if productivity is to be maintained. In many cases it has been demon-

BEWARE OF NOSTRUMS
(QUACK MEDICINES)

Which taken into the stomach to cure a complaint are liable to create a habit of strong drink.

THE PRINCIPLE OF ABSORPTION

Is the surest means of curing disease. The action of nearly every drug is three or four times greater if absorbed by the skin—than if swallowed.



For the cure of all complaints due to a disordered condition of the stomach, liver or kidneys its action in restoring a healthy condition is wonderful.

The Holman Liver Pad causes to be removed from the system all poisons, leaving the various organs free to perform their functions under natural conditions, this insures health.

For the positive and absolute cure of Malaria the Holman Liver Pad has never been known to fail. It is a Positive Preventive of Yellow Fever, Typhoid Fever, Smallpox, Diphtheria and Illnesses.

Having used your Pads for some months past, both in my practice and family, I unhesitatingly recommend them to the profession and public for all diseases of the liver and stomach. The Pads have failed to give me entire satisfaction. Very respectfully,

W. N. JUDSON, M. D.
ATLANTA, GA.

FREE TRIAL.

If you desire to give the Holman Liver Pad a Free Trial mail the coupon to:

Holman Pad Company, 39 Cortland St., New York.

COUPON.

Mail me one of your Pads which I promise to wear according to directions; if I find myself benefited after wearing same 2 weeks I agree to remit \$2.00, otherwise the pad will be returned to you.

Name.....
Street.....
City & State.....
A.M.

10c.

Your Money Back If You Want It.

Will bring you by mail a 2 oz. box of

Vanilla Crystals,

Orange, Lemon, Apple, Clove, Nutmeg, Ginger, Rose or Cinnamon Crystals. The best flavoring ever made. Non-Alcoholic and Unchangeable in Cooking. Superior to any 25c. bottle of Liquid Extract.

Endorsed by U. S. Food Commission. Send 10 Cents to-day to:

JOS. BUTLER CO., 17 Battery Place, N. Y. City.



READ THIS ONE.

Mr. Wm. Schmidt, of 1904 Coleman St., St. Louis, Mo., writes: I had Consumption in its worst form and was given up to die. One day I saw your ad for Lung-Germine. I sent for it. Doctors and friends laughed at me, but I was determined to try this medicine as a last resort to save my life. I had a family of eight children to care for. Today I am well and strong. If any one has a doubt about this statement I am able to furnish proofs from different hospitals and doctors and other reliable men.

Absolutely Guaranteed

to Give Positive Relief Within 30 Days

Lung-Germine, the great germ destroyer, was discovered by an old German doctor-scientist and has cured hundreds of cases of consumption, bronchitis, asthma and catarrh in Germany and in this country.

It has stood the most rigid tests so often and so well, it has brought hope and life to so many hundreds who were almost given up for lost. It has been proven its supreme value in destroying Tuberculosis germs in so many, many cases that it is used today and recommended by numerous large institutions and sanitarians. And positive proofs of all these things we will give to you freely.

If you have consumption or any of its symptoms, coughing and having continual, spitous yellow and black matter, bleeding from the lungs, weak voice, fast chest beats, flushed complexion, pain in chest, wasting away of flesh, etc.

You may have a FREE trial treatment sent you at once, together with a booklet on the treatment and care of consumption by simply sending in your name.

Don't Delay—Write Today

Your life may be at stake. Your letter may save you months of torturing illness and prolong your life to a good old age. Do wait means too late in many cases. Will you be one of those?

Lung-Germine Co., 385 Weber Bldg., Jackson, Mich.



THE NATION'S BRIDE.

Latest Copyrighted Imperial Size Portraits of the President's Daughter, Mrs. Nicholas Longworth (nee Alice Roosevelt).

A Magnificent Souvenir of the Greatest of White House Weddings.

[Published by authority of Miss ROOSEVELT.]

These exclusive photographs have been reproduced in copper engravings and printed in sepia on special tinted paper, suitable for framing.

Arranged in large panels as shown in accompanying illustrations.

5 poses in Ball Dress, size 12 x 36 inches.
5 poses in Street Dress, size 12 x 34 inches.

Now selling in New York City for \$1.00 each. Our special offer (edition limited).
Either panel 25c., or both panels 40c., postage prepaid.

Address **NATIONAL PHOTO-SOUVENIR CO.,**
Lock Box 61, WASHINGTON, D. C.



ONLY \$1.00. SPECIAL 60 DAY OFFER TO INTRODUCE OUR NEW EXCELSIOR SOLAR TELESCOPE. THE WONDER OF THE AGE.

OVER 3 1/2 FEET LONG

JUST WHAT YOU WANT ON SEA, FARM, RANCH OR IN THE SCHOOL.

This is a large powerful achromatic Telescope for Terrestrial and Celestial use. This Telescope is provided with an adjustable Solar Eye-piece. With this wonderful eye-piece you look the sun square in the face on the brightest and hottest day, and study its face as you do the moon at night. Every student, male or female, needs this Telescope to study the sun in Eclipse, also the mysterious recurrent Sun Spots which appear and disappear at intervals, and more about the different conditions of the Sun. You will regret it if you neglect to secure this Telescope. Positively such a good Telescope was never sold for less than \$8.00 in five sections, and 5-4 inches in circumference. They are Brass Bound, Brown Safety Case on each end and extend 4 feet. Telescopes of this size have been sold for from \$8.00 to \$16.00.

Every astronomer in the country or at seaside resort should certainly secure one of these instruments (and no farmer should be without one). Observe the sun away from view with astonishing clearness. Send by each order. This is a grand offer and you should not miss it. Our new catalogue of Sun, etc., sent with every order. Send \$1.00 by Registered Letter, Post Office Money Order, Express Money Order, or Bank Draft payable to our order. If you desire Telescope by mail add 10c. postage.

Interesting Booklet, entitled "Telescope Talk," FREE with each order, or sent on request. This booklet tells all about the care of Telescopes, and about Eclipses of the Sun and Moon the evening and morning for year, where visible, etc.

WANTS ANOTHER.

Gentlemen—Please send another Telescope. Money enclosed. Other was a bargain, good as instruments costing many times the money.

SUPERIOR TO A \$15 GLASS.

Fred Walsh, of Howe Island, Ontario, Canada, says: Gentlemen—I have just received your telescope, and must say it surpasses all expectations. It is far superior to one which I have had, which cost \$15.00 some years ago. Just a few nights I have seen with it are worth more than double what it cost me.

COULD DISCERN BOATS FROM FIVE TO TEN MILES.

Mr. C. M. Medley, of Duluth, Minn., who purchased one of these Telescopes, says they are superior to anything he expected. With it he could discern boats on the Great Lakes at a distance of 5 to 10 miles, and in clear weather he could read the names of steamers and other craft at a distance of one-half mile away.

A Telescope brings new brain cells into play, opens up new avenues of thought and broadens the scope of the mind. WORTH MANY TIMES THE PRICE.

Moers, Kirtland Bros. & Co. Gentlemen—I had with me on my recent European trip, one of your Excelsior Solar Telescopes, with which I observed an Eclipse of the Sun. At the American Travel it was almost 80 per cent. concealed. Your Solar eyepiece is a great thing. Its value to me on this occasion was many times greater than the entire outlay for the Telescope. Yours truly, L. S. HENRY.

Thousands of others are saying good things about these Telescopes. In numerous ways it will repay its cost a hundred times over. Get one and try it.

SECURE THIS TELESCOPE AND TAKE A LOOK AT OLD SOL.

Never before sold on any Telescope for less than \$5.00 or \$10.00.

Now is a chance to secure one for \$1.00.

This Eclipse alone is worth more than we charge for the entire telescope, to all who wish to behold the Sun's "Beastly" Beauty. Remove the Solar Eye-piece lens and you have a good, practical telescope for land observations.

KIRTLAND BROS. & CO., Dept. A.M., 80 Chambers St., N. Y.